



# Ag72Cu

## Designation

Safina	ISO 17672	EN 1044	AWS	DIN 8513
0601	Ag 272	AG 401	BAG-8	L-Ag72

## Applications

Eutectic brazing alloy Ag72Cu with excellent flow properties can be used for brazing steel, copper, nickel, copper-based alloys and nickel-based alloys, producing vacuum-tight joints even at higher temperatures. Due to the absence of zinc and cadmium, it is highly suitable for brazing in vacuum, the operating temperature under such conditions should ideally not exceed much above 900 °C to avoid silver evaporation.

## Chemical composition

Ag (wt. %)	Cu (wt. %)	Metal Impurities Limit (ppm):						
		P	Al	Bi	Cd	Pb	Si	total
71,0 – 73,0	27,0 – 29,0	80	10	300	100	250	500	< 1500

## Physical properties

Solidus-Liquidus temperature	Electrical Conductivity	Density
780 °C (eutectic)	46,1 m/Ωmm <sup>2</sup>	10,00 g/cm <sup>3</sup>

## Mechanical properties

Ultimate Tensile Strength	Elongation
340 – 390 MPa	17 %

## Available forms

Sheets		Foil		Sputtering targets
Thickness: 0,2 - 10 mm	Width: 10 - 400 mm	Thickness: 0,05 – 0,2 mm	Width: 10 - 100 mm	On request
Wires	Rods	Tubes		Atomised powder
Diameter: 0,1 - 6,0 mm	Diameter: 3 – 20 mm	OD: 1 – 30 mm	WT: 0,2 – 2,0 mm	On request

Other dimensions and forms (i.e. machined, formed or cut parts) are available upon request.